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Arth. from *Muhlenbergia mexicana*. On May 5 a few spermogonia appeared and a few days later the numerous clusters became very conspicuous. *Æcidia* in fair numbers appeared May 15. This experiment seemed from the first appearance of the spermogonia to be conclusive, yet it was deemed best to repeat it on a larger scale. Accordingly three thrifty large plants and two transplanted somewhat later and only pushing out the shoots half an inch, the leaves not yet unfolded, were carefully inoculated (Exp. No. 161) with teleutosporic material similar to that used in the first experiment. On May 13 the spermogonia appeared and at this writing all of the leaves of the five plants inoculated are highly colored with the myriads of spermogonia and *æcidia*, and a few of them are partially aborted from the presence of the parasite.

Cæoma Æcidium hibisciatum was described by Schweinitz in 1834 (Trans. Am. Phil. Soc. Philadelphia, 4:239). The *Puccinia* in question, rather common throughout Eastern United States, was called *Puccinia windsoriæ* and *Puccinia dochmia*. Dr. Arthur has shown that these two names apply to different species of Rusts—the former designating a *Puccinia* that belongs to *Tricuspis* (*Triodia*), and the latter having as its host the species of *Muhlenbergia*. But he separated the Rust in question from *Puccinia dochmia* and proposed the name *Puccinia muhlenbergiæ* Arth., Bull. Lab. Nat. Hist. State Univ. Iowa, 5:317. Oct. 1902.

It therefore becomes necessary to make a new combination as shown in the following paragraph which also recapitulates the synonymy:

PUCCINIA HIBISCIATUM (Schw.) Kellerman n. n.

Æcidium hibisciatum Schw. 1834.

Puccinia windsoriæ Burr. non Schw. 1885.

Puccinia muhlenbergiæ Arth. 1902.

OHIO FUNGI. FASCICLE VII

W. A. KELLERMAN, OHIO STATE UNIVERSITY.

List of Species and Hosts.

121. *Aecidium grossulariæ* (Pers.) Schm., on *Ribes cynosbati* L.
122. *Albugo candidus* (Pers.) Kuntze., on *Bursa bursa-pastoris* (L.) Britt.
123. *Cercospora maianthemi* Fckl., on *Unifolium canadense* (Desf.) Greene.
124. *Cladosporium herbarum* (Pers.) Link., on *Ampelopsis tricuspidata* Sieb. & Zucc.
125. *Corticium oakesii* B. & C., on *Ostrya virginiana* (Mill.) Willd.
126. *Hydnum coralloides* Scop., on Beech logs.

127. *Hydnum erinaceus* Bull., on rotten logs.
128. *Puccinia cirsii-lanceolati* Schroet., on *Carduus lanceolatus* L.
129. *Puccinia helianthi* Schw., on *Helianthus decapetalus* L.
130. *Puccinia lateripes* B. & R., teleutospores, on *Ruellia strepens* L.
131. *Puccinia lateripes* B. & R., æcidiospores, on *Ruellia strepens* L.
132. *Puccinia violæ* (Schum.) DC., on *Viola striata* Ait.
133. *Ramularia barbarea* Pk., on *Barbarea barbarea* (L.) McM.
134. *Ramularia variabilis* Fckl., on *Verbascum thapsus* L.
135. *Ramularia arvensis* Sacc., on *Potentilla monspeliensis* L.
136. *Septoria erigeronis* Pk., on *Erigeron annuus* (L.) Pers.
136. *Septoria lycopersici* Speg., on *Lycopersicon lycopersicon* (L.) Karst.
138. *Septoria scrophulariæ* Pk., on *Scrophularia marylandica* L.
139. *Stereum sericeum* (Schw.) Fr., on *Carpinus caroliniana* Walt.
140. *Uromyces trifolii* (Hedw.) Lev., on *Trifolium pratense* L.

121. *Aecidium grossulariæ* (Pers.) Schum.

Spermogonia only.

On *Ribes cynosbati* L.

Columbus, Ohio.

May 9, 1902.

Coll. W. A. Kellerman.

Supplement to No. 81.

122. *Albugo candidus* (Pers.) Kuntze.

On *Bursa bursa-pastoris* (L.) Britt.

Columbus, Ohio.

May 9, 1903.

Coll. W. A. Kellerman.

Supplement to No. 63.

123. *Cercospora maianthemi* Fckl.

On *Unifolium canadense* (Desf.) Greene.

(*Maianthemum canadense* Desf.)

West Mansfield, Logan Co., O.

June 10, 1902.

Coll. W. A. Kellerman.

"*C. Majanthemi*. — F. rh. 1631. — Cæspitibus in marculis exaridis, punctformibus, gregariis, cinereo-viridibus; hyphis erectis, continuis, simplicibus, flexuosis, crassis, multiguttulatis, fuscis; conidiis linearibus, multiseptatis fuscescentibus, sæpe curvatis.

"An der unteren Fläche noch lebender Blätter von *Maianthemum bifolium*, selten, im Sommer. Im Jura von Morthier gesammelt." L. Fuckel, *Symbolæ Mycologicæ*, 353. 1869.

124. Cladosporium herbarum (Pers.) Link.

On old stems of *Ampelopsis tricuspidata* Sieb. & Zucc.

Columbus, Ohio.

March 20, 1903.

Coll. W. A. Kellerman.

"*DEMATIUM HERBARUM*: Effusum compactum virescente-olivaceum pulverulentum.

"In caulibus plantarum maiorum, colore læte olivaceo distinguitur.

"*Byssus cæspitosa*." D. C. H. Persoon, *Synopsis Methodica Fungorum*, 699. 1801.

122. Corticium oakesii B. & C.

On *Ostrya virginiana* (Mill.) Willd.

Columbus, Ohio.

Sept. 8, 1902.

Coll. F. J. Tyler.

"*PEZIZA AMORPHA*: Sparsa subcoriacea majuscula sessilis, cupulis orbicularibus subeffusisque: disco planiusculo rufo, externe tomentoso-albidis.

"Peculiarem hanc speciem *Thelephoris* subaffinem mihi misit Dom. Ludwig. Lin. 1-2 lata. *Cupulae* nonnullae longitudinaliter in unc. unam confluent." D. C. Persoon, *Synopsis Methodica Fungorum*, 657. 1801.

126. Hydnum coralloides Scop.

On Beech logs.

Westerville, Franklin Co., O.

Oct. 22, 1902.

Coll. J. G. Sanders.

"*Clavaria ramosa*; extremis ramulis teretibus, subulatis, recta deorsum descendentibus."

"Habitat in udis putridisque lignis. Octobri M."

"Stipes cum trunco, cui innascitur angulum reductum constituit, ultimi vero ramuli cum eodem trunco paralleli sunt *Erinaceorum* aculeis simillimi, and forte eusdem Gentis." J. A. Scopoli, *Flora Carniolica*, 61. 1760.

127. Hydnum erinaceus Bull.

On rotten logs.

Columbus, Ohio.

Oct. 15, 1902.

Coll. Modesto Quiroga.

"Hydne Hérisson. *Hydnum erinaceus*.

Hydnum majus, convexum è candido-flavicans nec coriaceum; aculeis longissimis, gradatim dependentibus.

"In quercubus vivis parasitat; ut plurimum sessile; interdum in formam stiptis lateralis plus minus elongati, fig. A, gracilescens.

Agaricus barbatus flavescens. Buxb. Cent. I. 35. Tab. 56. Fig. 1.

Caract. Spécif. L'Hydne Hérisson est une des plus grandes espèces de ce genre; il est convexe, blanc d'abord, jaunâtre ensuite; sa base charnue et tendre est hérissée de longs aiguillons qui pendent tous parallèlement et se terminent par étages." Pierre Bulliard, *Histoire des Champignons de la France*, 1:304. Pl. 34. 1791.

128. Puccinia cirsii=lanceolati Schroet.On *Carduus lanceolatus* L.

Lakeside, Ottawa Co., O.

Sept. 21, 1902.

Coll. W. A. Kellerman.

"*P. Cirsii lanceolati* n. sp. Aecidien in kleinen Gruppen zusammengestellt. Pseudoperidien sehr locker gefügt, weit becherförmig. Sporen elliptisch mit farbloser, feinwarziger Membran und hell orange-rothem Inhalt. Uredo in rundlichen, kastanienbraunen Häufchen. Sporen kugelig, elliptisch oder eiförmig, 24-30 μ lang, 20-25 μ breit; Membran kastanienbraun, feinstachlig, an den Seiten mit 3, bei Befeuchten stark aufquellenden Keimporen. Teleutosporen in den Uredo-Häufchen auftretend, oder alleinstehend in schwarzbraunen Häufchen, elliptisch, nach unten abgerundet oder etwas verschmälert, in der Mitte wenig oder gar nicht eingeschnürt, 33-42 μ lang, 22-26 μ breit; Membran dunkel kastanienbraun, glatt, am Scheitel etwas verdickt und oft in eine flache kappenförmige Spitze verschmälert." J. Schroeter, Kryptogamen-Flora von Schlesien, Pilze, 3:317. 1889.

129. Puccinia helianthi Schw.On *Helianthus decapetalus* L.

Buckeye Lake, Licking Co., Ohio.

Oct. 23, 1902.

Coll. W. A. Kellerman.

Supplement to No. 10.

130. Puccinia lateripes B. & R.On *Ruellia strepens* L.

Columbus, Ohio.

September 1902.

Coll. W. A. Kellerman.

"*Puccinia lateripes*. B. & R.

"*Epiphylla maculis flavis vel nullis; sporis brevibus utrinque obtusis pedicello longo flexuoso laterali.*

"On leaves of *Ruellia*. Car. Inf. Ravenel. No. 1641.

"Spots yellow or quite obsolete; sori scattered; spores short, obtuse at either end, almost horizontal, with a long lateral flexuous stem." M. J. Berkeley, *Grevillea*, 3:52. December 1874.

131. Puccinia lateripes B. & R.*Æcidia* only.On *Ruellia strepens* L.

Columbus, Ohio.

June 22, 1902.

Coll. W. A. Kellerman.

Supplement to No. 130.

132. Puccinia violae (Schum.) DC.

Æcidium.

On *Viola striata* Ait.

Columbus, Ohio.

May 5, 1903.

Coll. J. G. Sanders.

"Ae. *Violæ*, orbiculare vel oblongum vel solitarie sparsum flavum, peridiis cupularibus flavis, ore dentato erecto pulvere aurantiaco.

"Congestum in foliis, solitarie et sparsum in petiolis *Violæ caninæ*. Eestate." Schumacher, *Enumeratio plantarum in partibus Sællandiæ*, 2:224. 1803.

133. Ramularia barbareae Pk.On *Barbarea barbarea* (L.) McM.

Columbus, Ohio.

May 8, 1903.

Coll. W. A. Kellerman.

"*Ramularia barbareae* n. sp.

"Spots suborbicular, arid, white, generally bordered by a slightly thickened brown line; flocci amphigenous, either short and branched or long and simple; spores oblong or cylindrical, often catenulate, rarely uniseptate, .0004 to .0009 inch long, .00012 to .00016 broad." Charles H. Peck, *Annual Report of the New York State Museum of Natural History*, 1886, 40:63. 1887.

134. Ramularia variabilis Fckl.On *Verbascum thapsus* L.

Columbus, Ohio,

May 2, 1903.

Coll. W. A. Kellerman.

"*R. variabilis*.—F. rh. 135. pr. p. (unter *Oidium Fusisporioides*).—Cæspitibus laxis, tenuibus, candidis, in macula subfusca virescente; hyphis fasciculatis, flexuosis, brevissimis; conidiis valde variis, ovatis, obovatis, ellipticis cylindraceisve, hyalinis."

"An den Blättern von *Verbascum Thapsus* und *Digitatis purpurea*, häufig, im Herbst." L. Fuckel, *Symbolæ Mycologicæ*, 361. 1869.

135. Ramularia arvensis Sacc.On *Potentilla monspeliensis* L.

Columbus, Ohio.

May 8, 1903.

Coll. W. A. Kellerman.

"*Ramularia arvensis* Sacc. F. it t. 1000—Maculis subcircularibus albicantibus, rubro-marginatis, minutis; hyphis epiphyllis fasciculatus simplicibus, continuis, hyalinis, denticulatis; conidiis cylindræis, continuis v. 1—septatis, 22-26 x 2.5-4, breve catenulatis, hyalinis." P. A. Saccardo, *Michelia*, 2:548. 1882.

136. Septoria erigerontis Pk.On *Erigeron annuus* (L.) Pers.

Columbus, Ohio.

May 19, 1903.

Coll. W. A. Kellerman.

"Septoria Erigeronis n. sp.

"Spots small, orbicular, distinct, rarely confluent, arid, surrounded by a dark brown or blackish line; perithecia minute, black on the upper surface of the leaf; spores thread-shaped, simple, 1/1000' long or more.

"Leaves of *Erigeron annuum*. Greenbush. July. The spots are 1"-2" in diameter." Charles H. Peck, Annual Report of the New York State Cabinet of Natural History, 1871, 24:87. 1873.

137. Septoria lycopersici Speg.On *Lycopersicon lycopersicon* (L.) Karst.

Columbus, Ohio.

Aug. 2, 1903.

Coll. W. A. Kellerman.

"SEPTORIA LYCOPERSICI Speg. (n. sp.)

Diag. Maculae magnae saepe totum folium occupantes, sordide fusco-cinerascentes, subindeterminatae; perithecia sparsa saepius hypophylla, lenticulari-hemisphaerica, prominula, atra, membranacea, contextu parenchymatico, olivaceo; spermatia bacillari-cylindracea v. bacillari-subclavulata majuscula (70-110 x 3), 3-pluriseptata, utrinque obtusiuscule attenuato-rotundata, hyalina.

Hab....In foliis languidis *Solani lycopersici* in hortis, Boca del Riachuelo, Maj. 1881." Auctore Carolo Spegazzini, Fungi Argentini, Pugillus quartus, 115. 1882.

138. Septoria scrophulariae Pk.On *Scrophularia marylandica* L.

Columbus, Ohio.

May 9, 1903.

Coll. W. A. Kellerman.

"Septoria Scrophulariae n. sp.

"Spots small, arid, whitish, surrounded by a purplish-brown border; perithecia few, on the upper surface; spores filiform, curved, hyaline, .001'-.0016' long." Charles H. Peck, Annual Report of the New York State Museum of Natural History, 1889, 40:57.

139. Stereum sericeum (Schw.) Fr.On *Carpinus caroliniana* Walt.

Columbus, Ohio.

Oct. 17, 1902.

Coll. W. A. Kellerman.

"Thelephora sericea Sz.

"T. minor sessilis orbiculata repanda papyracea confluens sericea candida, hymenio pallide fusciscente substriato, papillis minutis.

"Frequens ad ramulos emortuos juniores. Orbiculata, centro affixa. Pileus sericeus, nitens, strigositate arcte appressa." L. D. de Schweinitz, Synopsis Fungorum Carolinae Superioris, 80. 1822. [Excerpt, Schrift. d. Nat. Gesellschaft zu Leipzig.] z

140. Uromyces trifolii (Hedw.) Lev.

Uromyces trifolii (Hedw.) Lev.

On Trifolium pratense L.

Columbus, Ohio.

Nov. 4, 1902.

Coll. W. A. Kellerman and Jas. McOwen, Jr.

"Puccinie des trefles. Puccinia trifolii.

"Puccinia trifolii. Hedw. f. Fung. ined. t. 18.

"Cette espèce est intermédiaire entre les puccinies et les uredos; elle attaque les tiges, les pétioles, les nervures et les deux surfaces des feuilles; elle boursofle, défigure, recroqueville souvent les organes sur lesquels elle croît et empêche le trèfle de fleurir; ses taches sont oblongues ou irrégulières, bordées ou couvertes par les débris de l'épiderme déchiré; la poussière est d'un brun roux, composée de globules ovoïdes portés sur un pédicelle excessivement court, et qui est quelquefois obliéré. J'ai trouvé cette espèce dans un pré ombragé, près Fontenai-aux-Roses: elle croît sur le trèfle filiforme et le trèfle hybride." DeCandolle, Flore Française, 2:225. 1815.

*Correction, May 28, 1903.***82. Puccinia hibisciatum (Schw.) Kellerm.**

Æcidium hibisciatum Schw.

*Correction, May 28, 1903.***108. Puccinia hibisciatum (Schw.) Kellerm.**

Puccinia muhlenbergiae Arth.

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ACACIA emarginata, host to Pyropolyporus robiniae Murrill n. sp.
Bull. Torr. Bot. Club, 30:115. Feb. 1903.

ACACIA farnesiana, pods, host to Ravenelia siliquæ Long n. sp.
Bot. Gaz. 35:118. Feb. 1903.

ACAROSPORA epilutescens A. Zahlbr. n. sp., ad saxa granitica.
Beihefte z. Bot. Centralbl. 13:161. 1902.

ACAROSPORA obpallens (Nyl.) A. Zahlbr. n.n. [Lecanora obpallens
Nyl.] Beihefte z. Bot. Centralbl. 13:161. 1902.

ACAROSPORA peltastica A. Zahlbr. n. sp., ad saxa granitica. Beihefte z. Bot. Centralbl. 13:161. 1902.